

DØ Run II Publications

1. “Search for Doubly-charged Higgs Boson Production in the Decay $H^{++}H^{--} \rightarrow \mu^+\mu^+\mu^-\mu^-$ with the DØ Detector at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **93**, 141801 (2004); hep-ex/040415; FERMILAB-PUB-04/045-E.
2. “Observation and Properties of the $X(3872)$ Decaying to $J/\psi\pi^+\pi^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **93**, 162004 (2004); hep-ex/0405004, Fermilab-Pub-04/061-E.
3. “Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at DØ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 041801 (2005); hep-ex/0408146; FERMILAB-Pub-04/198-E.
4. “Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 221801 (2005); hep-ex/0409040; FERMILAB-Pub-04/217-E.
5. “Measurement of the B_s^0 Lifetime in the Exclusive Decay Channel $B_s^0 \rightarrow J/\psi\phi$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 042001 (2005); hep-ex/0409043; FERMILAB-Pub-04-225-E.
6. “A Search for the Flavor-Changing Neutral Current Decay $B_s^0 \rightarrow \mu^+\mu^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 071802 (2005); hep-ex/0410039; FERMILAB-Pub-04-215-E.
7. “Measurement of the Ratio of B^+ and B_0 Lifetimes”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 182001 (2005); hep-ex/0410052; FERMILAB-Pub-04-284-E.
8. “Measurement of the Λ_b Lifetime in the Decay $\Lambda_b \rightarrow J/\psi\Lambda$ with the DØ Detector”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94** 102001 (2005); hep-ex/0410054; FERMILAB-Pub-04-286-E.
9. “A Search for $Wb\bar{b}$ and WH Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94** 091802 (2005); hep-ex/0410062; FERMILAB-Pub-04-288-E.
10. “Measurement of the WW Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 151801 (2005); hep-ex/0410066; FERMILAB-Pub-04-293-E.
11. “A Measurement of the Ratio of Inclusive Cross Sections $p\bar{p} \rightarrow Zb/p\bar{p} \rightarrow Zj$ at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 161801 (2005); hep-ex/0410078; FERMILAB-Pub-04-297-E.

12. “A search for anomalous heavy-flavor quark production in association with W bosons”, V. M. Abazov et al, Phys. Rev. Lett. **94**, 152002 (2005); hep-ex/0411084; FERMILAB-Pub-04-359-E.
13. “First measurement of $\sigma(pp\bar{p} \rightarrow Z) \times \text{Br}(Z \rightarrow \tau\tau)$ at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov et al, Phys. Rev. D **71**, 072004 (2005); hep-ex/0412020; FERMILAB-Pub-04-381-E.
14. “Search for first-generation scalar leptoquarks in $pp\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov et al, Phys. Rev. D Rap. Comm. **71**, 071104(R) (2005); hep-ex/0412029; FERMILAB-Pub-04-389-E.
15. “Study of $Z\gamma$ events and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $pp\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 051802 (2005); hep-ex/0502036; FERMI-PUB-05-023-E.
16. “Measurement of inclusive differential cross sections for $\Upsilon(1S)$ production in $pp\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 232001 (2005); hep-ex/0502030; FERMI-PUB-05-020-E.
17. “Measurement of the $pp\bar{p} \rightarrow W\gamma + X$ Cross section and Limits on Anomalous $WW\gamma$ Couplings at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. D Rap. Comm. **71**, 091108 (2005); hep-ex/0503048; Fermilab-Pub-05/046-E.
18. “Production of WZ Events in $pp\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV and Limits on Anomalous WWZ Couplings”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 141802, (2005); hep-ex/0504019, Fermilab-Pub-05/061-E.
19. “Search for neutral supersymmetric Higgs boson in multijet events at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 151801 (2005); hep-ex/0504018, Fermilab-Pub-05/058-E.
20. “Measurement of the $t\bar{t}$ cross section in $pp\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using kinematic characteristics of lepton plus jet events”, V. M. Abazov *et al.*, Phys. Lett. B **626**, 45 (2005); hep-ex/0504043, Fermilab-Pub-05/079-E.
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30. “The Upgraded $D\bar{D}$ Detector”, V. M. Abazov *et al.*, Nucl. Instr. and Methods A **565**, 463 (2006), physics/0507191, Fermilab-Pub-05/341-E.
31. “Search for the Higgs Boson in $H \rightarrow WW^{(*)}$ Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **96**, 011801 (2006); hep-ex/0508054; Fermilab-Pub-05/377-E.
32. “Measurement of the isolated photon cross section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **639**, 151 (2006); hep-ex/0511054, FERMI-Pub-05/523-E.
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37. “Multivariate searches for single top quark production with the DZero detector”, V. M. Abazov *et al.*, Phys. Rev. D **75**, 092007 (2007). hep-ex/0604020; Fermilab-Pub-06/069-E.
38. “Search for Squarks and Gluinos in Events with Jets and Missing Transverse Energy in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **638**, 119 (2006); hep-ex/0604029; Fermilab-Pub-06/077-E.
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61. “Measurement of the $t\bar{t}$ Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using secondary vertex b tagging Phys. Rev. D **74**, 112004 (2006); hep-ex/0611002; Fermilab-Pub-06/386-E.
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73. “Search for a Higgs boson produced in association with a Z boson”, V. M. Abazov *et al.*, Phys. Lett. B **655**, 209 (2007); arXiv:0704.2000; Fermilab-Pub-07/076-E.
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